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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,531	08/25/2003	Stuart Cain	200310063-1	4467
22879	7590	11/21/2006	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400				ALMEIDA, DEVIN E
		ART UNIT		PAPER NUMBER
		2132		

DATE MAILED: 11/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/648,531	CAIN, STUART
	Examiner	Art Unit
	Devin Almeida	2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 25 August 2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-20 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 3/21/2005.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .
5) Notice of Informal Patent Application
6) Other: ____ .

DETAILED ACTION

This action is in response to the papers filed 8/25/2003. Claims 1-20 were received for consideration. No preliminary amendments for the claims were filed. Currently claims 1-20 are under consideration.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 3/21/2005 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country; or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1-20 are rejected under 35 U.S.C. 102(a) and 35 U.S.C. 102(e) as being anticipated by Bunker et al (U.S. Patent Application Publication # 2003/0056116). Bunker teaches everything with respect to claim 1, a security indication spanning tree

method comprising: determining asset value of a network node (see figure 25-37 and paragraphs 0178 - 0263); ascertaining exposure rating of said network node (see figure 25-37 and paragraphs 0178 - 0263); establishing a functional priority risk indicator for indicating the likelihood of an attack from another network node (see figure 25-37 and paragraphs 0178 – 0263); and creating a spanning tree schematic of a network including said network node, wherein said spanning tree schematic includes an indication of said asset value (see figure 25-37 and paragraph 0178 – 0263).

With respect to claim 2, spanning tree schematic includes an indication of said exposure rating (see figure 25-37 and paragraphs 0178 – 0263).

With respect to claim 3, spanning tree schematic includes an indication of said attack risk (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 4, asset value provides an indication of an economic value of functions provided by said network node (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 5, asset value corresponds to an economic impact of a disruption to functionality provided by said network node (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 6, exposure rating defines a threshold value corresponding to connectivity of the network node with other network nodes (see figure 25-37 and paragraphs 0041 – 0045, 0178 – 0263).

With respect to claim 7, network node is given an exposure rating value based upon a connectivity distance from a root node (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 8, root node is a node closest to an external network (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 9, functional priority risk indicator is associated with an economic benefit and utility of functionality said network node provides (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 10, a security indication spanning tree system comprising: a bus for communicating information (see paragraphs 0065); a processor coupled to said bus, said processor for processing said information including instructions for building an attack impact susceptibility spanning tree representation including asset value factors (see paragraphs 0065 - 0178); and a memory coupled to said bus, said memory for storing said information, including instructions for building said attack impact susceptibility spanning tree representation including said asset value factors (see paragraphs 0065 – 0086).

With respect to claim 11, asset risk value is automatically determined (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 12, a central console for interfacing with a network application management platform (see paragraphs 0065 - 0178).

With respect to claim 13, instructions include attack spread risk determination instructions (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 14, instructions include exposure rating determination directions (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 15, a computer usable storage medium having computer readable program code embodied therein for causing a computer system to implement security indication spanning tree instructions comprising: a device examination module for examining information regarding devices included in a centralized resource network, wherein said examining includes ascertaining what applications said devices support (see figure 25-37 and paragraphs 0178 - 0263); an importance indication module for obtaining an indication of a relative importance of functionality provided by said device (see figure 25-37 and paragraphs 0178 - 0263); and a spanning tree module for building a spanning tree topology representation including said indication of said relative importance of said device in supporting said applications (see figure 25-37 and paragraphs 0141 - 0145, 0178 - 0263).

With respect to claim 16, relative importance of said device is based upon an economic value of functions said devices performs in support of said applications (see figure 25-37 and paragraph 0178 - 0263).

With respect to claim 17, an internal attack permeability module for investigating the permeability of a network in permitting an internal attack on a device from other devices included in the network (see figure 25-37 and paragraphs 0142 – 0145, 0178 - 0263).

With respect to claim 18, analyzing the ease of attack on said device from other devices in said centralized resource network; and assigning an connectivity threshold

value to said device based upon said analysis of said ease of attack (see figure 25-37 and paragraphs 0178 - 0263).

With respect to claim 19, an attack danger assessment module for assessing the danger of an attack from other devices included in said network (see figure 25-37 and paragraphs 0142 – 0145, 0178 - 0263).

With respect to claim 20, deriving an attack danger indication based upon said indication of said relative importance of said device and said connectivity threshold value; and associating said attack danger indication with said device (see figure 25-37 and paragraphs 0178 - 0263).

Prior Art Made of Record

The prior art made of record and not relied upon in considered pertinent to applicant's disclose. The following patents are cited to further show the state of the art with respect to a file system, such as:

United States Patent Application Publication No. 2004/0015728 to Cole et al., which is cited to show a system and method for network vulnerability detection and reporting.

Conclusion

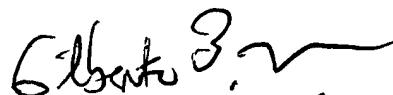
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devin Almeida whose telephone number is 571-270-1018. The examiner can normally be reached on Monday-Thursday from 7:30 A.M. to

5:00 P.M. The examiner can also be reached on alternate Fridays from 7:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Devin Almeida
Patent Examiner
11/13/2006


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